UNIVERSITY OF ILLINOIS COLLEGE OF ENGINEERING

# EOH '85

EMethod to the Madness E

MARCH IST & 2nd 1985 CHAMPAIGN - URBANA

# PROGRAM of SPECIAL EVENTS with DEPARTMENT and SOCIETY EXHIBITS

Friday, March 1 Saturday, March 2 9 am -- 4 pm 9 am -- 3 pm

### SPECIAL EXHIBITS

Coordinated Project

Food Production Tackmology 308 Engineering Hall

Cantral Eshibit

Mind Over Matter Yields Understanding Loomis Laborniory-Main Jobby

## DEPARTMENTS

Woodshop and Aero Lab B

\* Tornano Box Wind Tunnel Aerospace Structures Supersonia Flow Simulation Magraus Effect Morten Gun Solar Energy Propulsion The Ramies NEW Frontiers (NASA) Planetary Fryby Gilders Aerospace Industrial Displays Wind Pawar Opanda Ellect VSTOL (ALAA)

AGRICULTURAL ENGINEERING American Society of Agricultural Engineers Agricultural Engineering Sciences Bldg.

Lauer Corn Delect Detection Soll Oldanic Mattel Sensor Lacers in Pesticide Application Electric Motor Starting Requirements Worsellon-Testing Innovative Swine Housing Loud Testing of Building Materials Maintall Simulator Calibration So Erosion -- Land Stope and Length Soil Frequery-Fresklub and Canopy Cover Seil Ernown-Trilage Brackes Fine Soil Particle Enrichment Birthusded Tractor Performance

BIOENGINEERING Electrical Engineering Bullding

Lastine Associationes Davices ACCOUNTS CONGRETE Ultransural Coppler Bloodflow Datection Equipment for the Blind Student

CERAMIC ENGINEERING Ceramics Building

\* Refractories

\* Strength Demonstration

Crystallography Thermal Analysis Digital Thermal Analysis Fabrication of Hybrid Circuits Capacitor Fabrication

\* Porcelain Enamels Forming Process Ceramics Applied to Automobiles Blo Ceramics

CHEMICAL ENGINEERING American Institute of Chemical Engineers Roger Adams Lab, Noyes Lab

Polystyrene Synthesis Process Control

\* Ester Chemistry

· Bootbeer Manufacture

· Polystyrene Injection Molding Magnetic Fluidized Bath . Dr. Haight's Magic Show (100 NL)

CIVIL ENGINEERING Talbot Lab, Crane Bay, Astronomy Building

Surveying Bridge Structures Underground Tunnel Testing Earthquake Engineering Environmental Engineering Model Span Contest Touch and Shovel Game Assembly Hall Construction Geotechnical Engineering

\* Duick Sand

\* Dominos in Structures Computer Aided Design Concrete Cylinder Contest (AGC) Traffic Planning (ITE) Congrete Lunar Space Station (XE)

COMPUTER SCIENCE Digital Computer Lab

Digital Canvas Sleep Stage Scoring Work Efficiency Evaluation Tool Heuristic-based Chess In the Navy Computer Graphics \* The Computer Contest Midas Chip Design \* The ACM Programming Contest

ELECTRICAL AND COMPUTER ENGINEERING Electrical Engineering Building

A Robot Society An Intelligent Personal Robot Synthesizer and Sequences

A Self-contained Porsonal Russil JEM COMPORATION Advanced Digital Systems Lab · Musical Enightenment . Graymark Robots

Modification of a Synthesizer . Zenith Corporation Digital Audio (IEEE)

ENGINEERING MECHANICS MAAIMAT Talbot Laboratory

Malerials Engineering Experimental Siress Aralysis Concrete Cylinder Crushing Fluids Lab Demonstration Dynamics

GENERAL ENGINEERING Illinois Society of General Engineers Gamma Egsilon Transportation Building

Analgo Computer IBM PC Demonstrations GAD/CAM System Engineering Graphics Apple Microprocessing Commuter Voice Receptition Fluidics Display Balsa Wood Structures

INDUSTRIAL ENGINEERING American Institute of Industrial Engineers Mechanical Engineering Building

\* Flight Simulator Inventory Control System Statistical Process Commo Administration/Management Systems Numerical Control-GAE Robotics Operations Research Methods and Time Analysis. Health Systems

MECHANICAL ENGINEERING Mechanical Engineering Bidg., Woodshop, Mechanical Eng. Lab. Lockmiller Award Entres

A Host of Ingeneous Machinette Automotive Systems Display (SAE) ASME Vehicle Design Contest Solar Energy Lab (Solut Enrigy Steller Robot Simulation The Foundry, A Degroonstration Fluid Flow Own a Extinde

METALLURGY Metallurgy and Mining Building Farging.

\* Passion Mesal \* Spin Casting Thin Film Sullage Eawlings American Nuclear Society Nuclear Reactor Lab Coordinated Sciences Lab

Clean-up System for Reactors
Thela-Pinch Can Crusher
Reactor Tours (198 CSL)
Radiation Display and Shielding
Activation Analysis

PHYSICS

Loomis Laboratory of Physics
Adventures in Freshman Physics
Rotaling Physics

- Lasers Toy Room

### SOCIETIES

ASSOCIATION OF MINORITY STUDENTS IN ENGINEERING (AMSIE) Electrical Engineering Building

A Robot Arm

CO-OP STUDENT ASSOCIATION Engineering Hall

Organization Display

ETA KAPPA NU Computer Monitored Security Systems

SIGMA PHI DELTA FRATERNITY 301 Engineering Hall Schilleren Pictures of Flames

Mechanical Engineering Building
A Step in Time

165 Electrical Engineering Building

\* Rube Goldberg "Do Nothing" Machine

TECHNOGRAPH
Boneyard Creek—North of Electrical Engineering
Building
Techno-rapht Cup

Method to the Madness

Innovation is the product of rational development and careful modification, yet our world is becoming increasingly technological at a bewildering rate. This year's EOH wishes to stress the process by which man finds solutions. Engineering is then, in a sense, the method to the madness.

The primary goal of Engineering Open House is to educate the public about engineering, especially about engineering at the U of I. Visitors to this year's EOH will leave with a better appreciation of their technological world and a clearer understanding of how it came to its present state.

### SPECIAL NOTICES

The exhibits marked with an asterisk (\*) are those which the exhibitors feel children would enjoy.

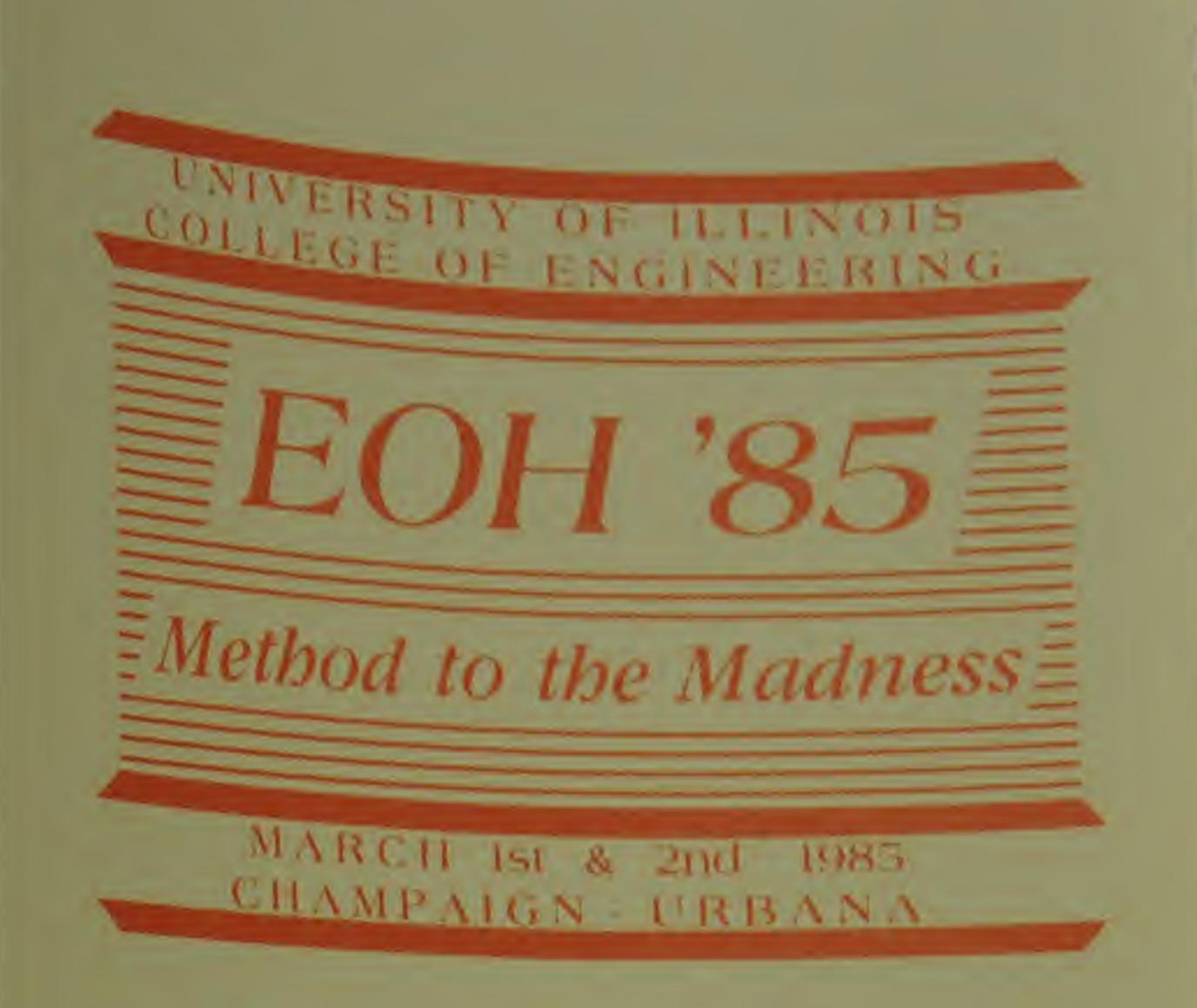
Tours of displays and the Engineering Campus will leave periodically from the central tent. Shuttle buses are available around campus.

T-shirts, pins, and other souvenirs of EOH '85 will be available at the central tent.

The public is invited to participate in contests held during EOH. Prizes will be awarded. Contact the department, society, or central tent if interested.

EOH culminates with St. Pat's Ball and Awards Presentation at Round Barn Center Saturday at 7:00 p.m. Tickets are available at central tent.

Central Committee of Engineering Open House 1985 wishes to thank all students, faculty, corporations, and the public for their support and participation. We invite you to return to EOH '86!



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